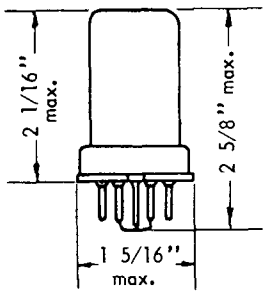
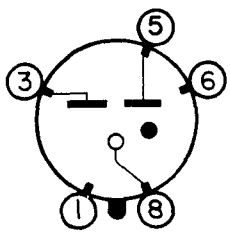
GAS - FILLED DOUBLE DIODE

TYPE CK1024

The CK1024 is a gas-filled double diode with an ionically heated cathode designed for intermittent or "push-to-talk" service in portable and mobile transmitting equipment. Its principal application is as a full-wave power rectifier in equipment employing vibrator type power supplies. The CK1024 is capable of over twice as many starts at maximum output current as similar gas rectifiers with ionically heated cathodes.





BOTTOM VIEW

4B

MECHANICAL DATA

ENVELOPE: MT-8 Metal

BASE: Small Wafer Octal 5-Pin

TERMINAL CONNECTIONS:

Pin 1 Shell	Pin 6 No Connection
Pin 3 Plate #2	Pin 8 Cathode
Pin 5 Plate #1	

MOUNTING POSITION: Any

ELECTRICAL DATA

DESIGN CENTER MAXIMUM RATINGS:

Peak Inverse Plate Voltage	1000 volts
Peak Plate Current	480 ma.
Absolute Minimum Peak Starting Voltage, per Plate (Full-Wave)	300 volts
DC Output Current	175 ma.
Absolute Minimum DC Output Current ■	50 ma.
Minimum Total Effective Plate Supply Impedance, per Plate ♦	300 ohms

CHARACTERISTICS AND TYPICAL OPERATION ▲ - VIBRATOR OPERATION - FULL-WAVE:

Peak Plate Voltage, per Plate ●	500 volts
Filter Input Condenser	8 μfds.
Total Effective Plate Supply Impedance, per Plate ♦	375 ohms
Average Dynamic Voltage Drop	24 volts
DC Output Current	160 ma.
DC Output	395 volts

■ *Under no circumstances should the tube be operated with less than 50 ma. of cathode current.*

▲ *Continuous or typical "push-to-talk" transmitter service as used in portable or mobile equipment*

● *Open circuit voltage-flat portion of vibrator - transformer voltage wave.*

♦ *Including vibrator, transformer, and wiring.*

Tentative Data